GREENBROOK
ELECTRICAL PLC

INSTALLATION/OPERATING INSTRUCTIONS FOR G242PCKIT

Thank you for purchasing a quality Extractor fan from Greenbrook. Please read these instructions fully prior to initial use.

Every effort has been made to ensure that the guidance information on this sheet will enable the installation of the fan to be carried out safely and correctly.

IF IN DOUBT, INSTALLATION SHOULD BE MADE BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH CURRENT WIRING REGULATIONS.

WHEN INSTALLING FANS, SWITCH OFF MAINS SUPPLY BEFORE MAKING ELECTRICAL CONNECTIONS.

IMPORTANT

1. All fans may be fitted to a wall or window.
2. These fans are double insulated and do not require an earth connection.
3. The fans electrical supply, must be connected via a double pole switched fuse connection unit, having a contact separation of at least 3mm in all poles fitted with a 3 amp fuse. This must be sited outside of a room containing a fixed bath or shower.
4. For best performance, fans should be mounted on a wall as high as possible.
5. Wall mounted fans are not intended for use with ducting beyond 2 metres in length.
6. Extraction fans should not be located in rooms containing open flued appliances.
7. Do not install 230V fans in a shower or bathroom application where the fan may be within reach of someone using a bath or shower, or subjected to water spray (zones 0,1 and 2).

INSTALLATION

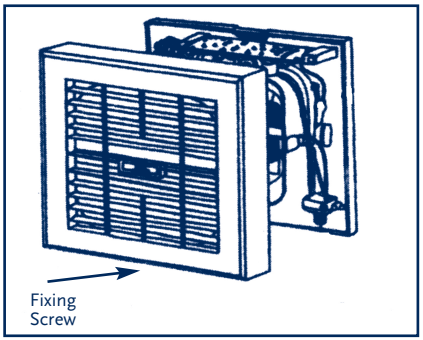
Select a suitable mounting position for the fan ensuring there are no hidden obstructions and work out the cable runs.

Please Note: Using long lengths of ducting will reduce the efficiency of the fan, whenever possible keep the ducting straight and the distanced as short a possible.

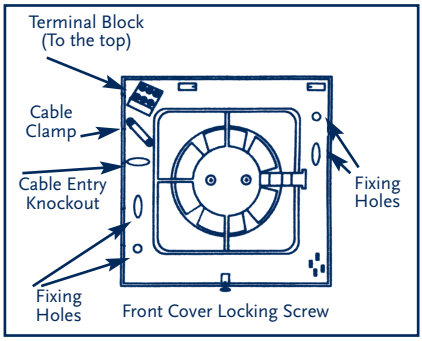
***Warning*: Ensure that the mains supply is isolated before making any electrical connections.**

Installing The Fan in an External Wall

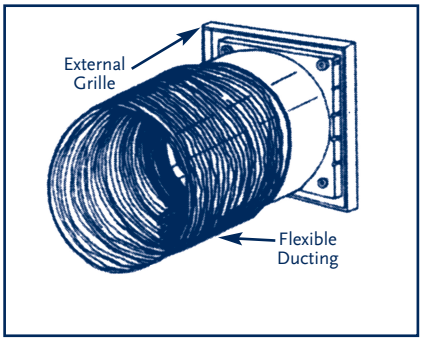
Dia 1- Front Cover



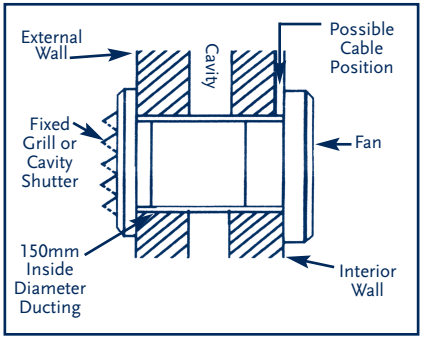
Dia 2- Internal Fan Layout



Dia 3 - Wall Kit



Dia 4 - Installation in an External Wall



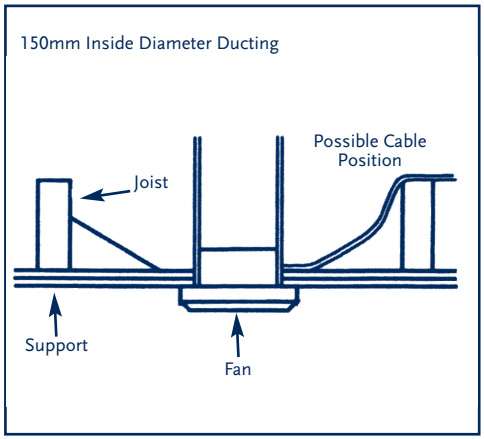
1. Cut a hole through the wall, sized to give a small clearance on 155mm inside diameter ducting.
2. Remove the front cover from the fan by loosening its locking screw (Dia.1)
3. Remove the cable entry knockout.
4. Hold the fan body assembly (terminal block to the top) centrally in the hole and mark two fixing positions and the cable entry.
5. Drill and plug the two fixing positions and chase a groove for the cable. Fix the cable in position,ensuring sufficient length is left for the connections.
6. Bridge the wall cavity using a length of rigid or flexible 155mm inside diameter ducting and make good the wall surfaces where necessary.
7. Fix the fan body assembly to the wall using pan head screws of a suitable length.
8. Make the correct electrical connections (see wiring diagrams) to the terminal block and clamp the cable securely to the fan body.

IMPORTANT

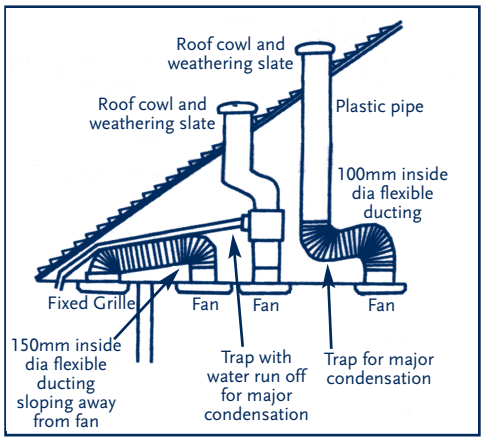
Ensure that the fan blades rotate freely.
Refit the front cover and tighten its locking screw. Fit a suitable external grille or gravity shutter models G625/G600, Shown in Dia 3.

Installing The Fan in a Ceiling

Dia 5 - Installation in a ceiling



Dia 6 - Venting through a roof



1. Fit a firm support between the joists.
2. Cut a hole through the ceiling and support sized to give a small clearance on 155mm inside diameter ducting.
3. Remove the front cover from the fan by loosening its locking screw (Dia.1)
4. Remove the cable entry knockout.
5. Hold the fan body assembly centrally in the hole and mark two fixing positions and the cable entry.
6. Drill pilot holes for the fixing positions and a clearance hole for the cable.
7. Fix the supply cable in position ensuring sufficient length is left for the electrical connections.
8. Fix the fan body assembly to the ceiling using pan head screws of a suitable length.
9. Install ducting from the fan spigot either through the roof using a weatherproof slate and roof cowl, or under the eaves using an external fixed grille model G625.
10. Make the correct electrical connections (see wiring diagrams) to the terminal block and clamp the cable securely to the fan body.

WARNING

If installing any ducting which will be positioned higher than the fan itself, a condensation trap must be used, this should be fitted as close to the fan as possible.

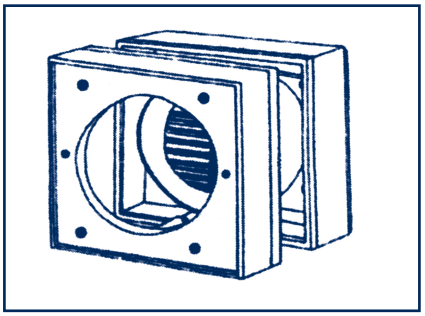
Fan ducting outlet must be positioned well away from any existing flue gas outlets such as central heating exhausts

IMPORTANT

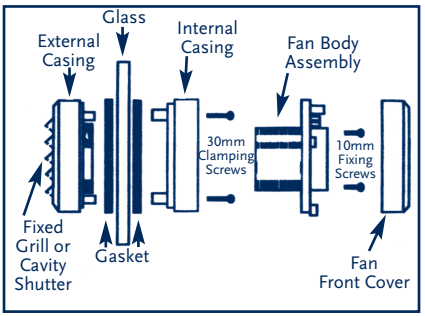
Ensure that the fan blades rotate freely.
Refit the front cover and tighten its locking screw.

Installing the Fan in a Window

Dia 7- Window Conversion Kit



Dia 8 - Installation in a Window



Please Note: This installation requires a window fan and a conversion kit models CK6GS or CK6FG.Fans can be fitted into most types of glass with varying thickness (including double glazed units)from 4mm to 28mm.
It is advisable to have the hole pre-cut in a new pane of glass by a professional glazier. If the fan is to be mounted in hermetically sealed double glazing it will be necessary to obtain a window from a glazing manufacturer.

1. Pre-cut a 184mm diameter hole in the glass.
2. Remove the front cover from the fan by loosening its locking screw (Dia.1)
3. Undo the four 30mm clamping screws positioned top and bottom on the internal casing and separate from the external casing.

IMPORTANT

Ensure the sealing gaskets are fitted correctly to the edges of the casings.

From the Inside:

1. With the clamping screw holes positioned top and bottom, place the internal casing and gasket centrally in the hole.

From the Outside:

1. With the louvres/shutters slanting downward, re-locate the external casing and gasket squarely on to the internal casing.
2. Re-locate and tighten the two clamping screws sufficiently to create a seal on the glass.

DO NOT OVERTIGHTEN

3. Fix the fan body assembly to the internal casing (terminal block to the top) using the two 10mm fixing screws.
4. Fix the cable in position, ensuring sufficient length is left for the connections.
5. Remove the knockout or form a suitable cable entry in the front cover (not immediately above the overrun timer when fitted).
6. Make the correct electrical connections (see wiring diagrams) to the terminal block and clamp the cable securely to the fan body.

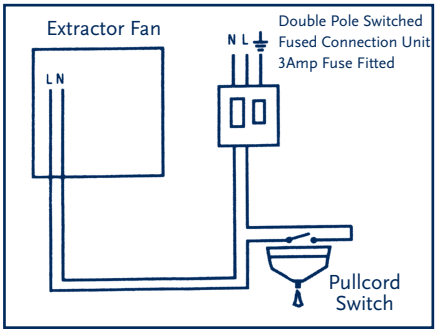
IMPORTANT

Ensure that the fan blades rotates freely.
Refit the front cover and tighten its locking screw.

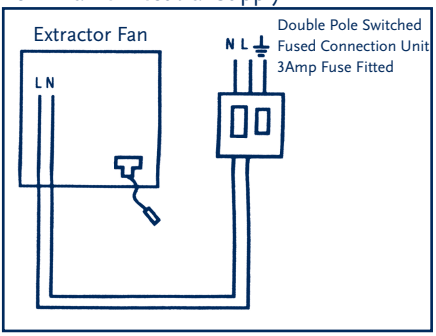
WIRING DIAGRAMS

Model	Wiring Diagram	Description	Operating
Standard	9	For remote switching	Remote switch on - Fan runs Remote switch off - Fan stops
Pullcord Switch	11	Integral pullcord switch	Pullcord switch on - Fan runs Pullcord Switch off - Fan stops
Overrun Timer	12	Adjustable (2-30 min) Overrun timer for remote switching.	Remote switch on - Fan runs Remote Switch off - Fan overruns for preset time
Overrun Timer & Pullcord Switch	12	Integral pullcord switch	As above - Pull momentary pullcord for about 1 second to activate timer - Fan overruns for preset time.
	11	Requires no switched live supply when operated by integral momentary - pullcord switch only	
Overrun Timer & Humidistat	12	Adjustable (2-30 min) Overrun timer for remote switching. Integral humidity sensor switching.	Remote switch on - Fan runs Remote switch off - Fan overruns for preset time. Automatic operation when relative humidity level in room rises above 70%
	11	Requires no switched live supply when operated by integral humidity sensor switching only	
Overrun Timer & Humidistat & Pullcord Switch	12	As above with integral momentary pullcord switch override.	As above - Pull momentary pullcord for about 1 second to activate timer - Fan overruns for preset time.
	11	Requires no switched live supply when operated by integral humidity sensor switching and integral momentary pullcord switch only	

Dia 9 - Standard Models
Terminal L - Live Supply
Terminal N - Neutral Supply

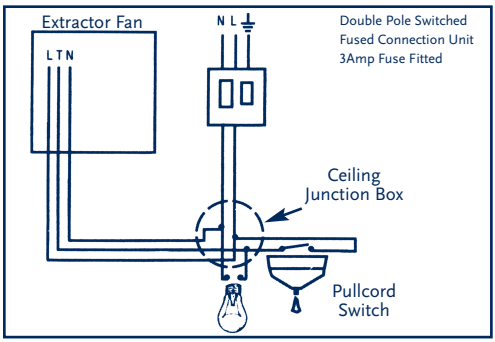


Dia 10 - Integral Pullcord Switch Operated Models
Terminal L - Live Supply
Terminal N - Neutral Supply



Dia 11 - Overrun Timer and Humidistat Models for Remote Pullcord Switch Operation

Terminal L -	Permanent Live Supply
Terminal T -	Switched Live Supply
Terminal N -	Neutral Supply



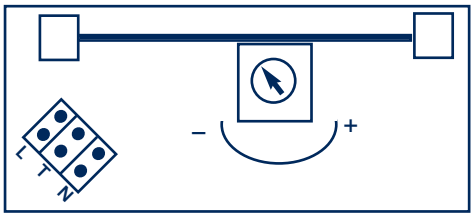
PLEASE NOTE

The fan motor has an automatic cut out switch for protection against overload or misuse.

OVERRUN TIMER MODELS

To comply with current building regulations the overrun timer has been preset for approximately 15 minutes. To reduce the overrun time, first ensure the fan is isolated from the mains supply, then remove the front cover by loosening its locking screw and turn the timer control clockwise on the timer board. Adjustable from 2 - 30 minutes.

Dia 12- Timer Control



HUMIDISTAT MODELS

Upon initial installation, the fan may run continuously for up to 10 days until the relative humidty has been reduced to an acceptable level. Prevailing weather conditions can also have its effect and in humid conditions its normal running periods may be extended.

CLEANING

Before cleaning, ensure the fan is isolated from the mains supply. The front cover of the fan may be cleaned with a damp cloth. The interior of the fan should be cleaned occasionally. To do this, first remove the front cover by loosening its locking screw, then clean carefully with a dry cloth if necessary the fan blade may be cleaned with a soft brush.

NOTE: All electrical work must conform to BS7671 the current IEE wiring regulations and part P of building regulations. You are advised to check with your local authority's Building Control Department, or an Authorised Competent Person, before starting. If in any doubt about electrical work, contact a qualified electrician.

A direct replacement, without a wiring change, need not be notified to your Building Control Department.

ELECTRICAL RDL ACCESSORIES

Is a Brand Name of
GreenBrook Electrical PLC

TECHNICAL DATA

Rated Voltage:	230V, AC ∿ 50Hz
Load:	25W Maximum
IP Rating:	IP44
Air movement:	Up to 230 Cubic Metres/Hour (64 Litres/Sec)
Insulated:	Class II Double

PLEASE KEEP THESE INSTRUCTIONS SAFE FOR FUTURE REFERENCE

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